

<b>IH 43: SILVER SPRING DR TO STH 190 (MILWAUKEE COUNTY)</b> <b>OFF-PEAK DAY CLOSURE</b> <b>NO DIVERSION ROUTE (MAX QUEUE METHOD)</b>	<b>AUGUST</b>
	Analyzed for 2009 Construction Season

**SUMMARY OF TRAFFIC MODEL OUTPUT**

FRIDAY      SOUTHBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR						AVERAGE SPEEDS IN MPH				
	MAIN ROUTE		SITE CAPA CITY	FLOW		AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		SITE	
	DEMAND FLOW	PCT HEAVY		MAIN ROUTE	'DIVER TED'			WITHOUT WORK ZONE	WITH WORK ZONE		
MID-1 AM	502	0.0	OFF	502	0	0.00	0	70.1	70.1	70.1	
1-2 AM	296	0.0	OFF	296	0	0.00	0	70.2	70.2	70.2	
2-3 AM	256	0.0	OFF	256	0	0.00	0	70.2	70.2	70.2	
3-4 AM	261	0.0	OFF	261	0	0.00	0	70.2	70.2	70.2	
4-5 AM	591	0.0	OFF	591	0	0.00	0	70.0	70.0	70.0	
5-6 AM	1442	0.0	OFF	1442	0	0.00	0	68.9	68.9	68.9	
6-7 AM	3346	0.0	OFF	3346	0	0.00	0	66.6	66.6	66.6	
7-8 AM	4525	0.0	OFF	4525	0	0.00	0	59.9	59.9	59.9	
8-9 AM	4493	0.0	OFF	4493	0	0.00	0	60.2	60.2	60.2	
9-10 AM	3614	0.0	OFF	3614	0	0.00	0	66.1	66.1	66.1	
10-11 AM	3405	0.0	2999	3405	0	3.91	202	66.5	29.2	37.3	
11AM-NOON	3630	0.0	3000	3419	211	12.71+	679	66.1	13.7	37.3	
NOON-1PM	3792	0.0	3000	3003	789	15.84+	838	65.0	12.2	37.3	
1-2 PM	3920	0.0	3000	3003	917	15.80+	839	64.1	12.2	37.3	
2-3 PM	4219	0.0	3000	3015	1205	15.77+	844	62.0	12.1	37.3	
3-4 PM	4031	0.0	OFF	4031	0	2.13	181	63.3	38.1	38.1	
4-5 PM	4673	0.0	OFF	4673	0	0.00	0	58.9	58.9	58.9	
5-6 PM	4597	0.0	OFF	4597	0	0.00	0	59.4	59.4	59.4	
6-7 PM	3762	0.0	OFF	3762	0	0.00	0	65.1	65.1	65.1	
7-8 PM	2704	0.0	OFF	2704	0	0.00	0	67.4	67.4	67.4	
8-9 PM	2113	0.0	OFF	2113	0	0.00	0	68.1	68.1	68.1	
9-10 PM	1938	0.0	OFF	1938	0	0.00	0	68.3	68.3	68.3	
10-11 PM	1732	0.0	OFF	1732	0	0.00	0	68.6	68.6	68.6	
11PM-MID	1263	0.0	OFF	1263	0	0.00	0	69.2	69.2	69.2	

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

+ INDICATES QUEUEING EXCEEDS USER-SPECIFIED MAXIMUM LIMIT

*----- SITE BREAKDOWN DELAYS -----*	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

*----- SITE ACCIDENT DELAYS -----*	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0
AV BREAKDOWNS PER DAY	0
AV QUEUE DELAY/DAY (VEH-H)	0
AV TOTAL DELAY/DAY (VEH-H)	0

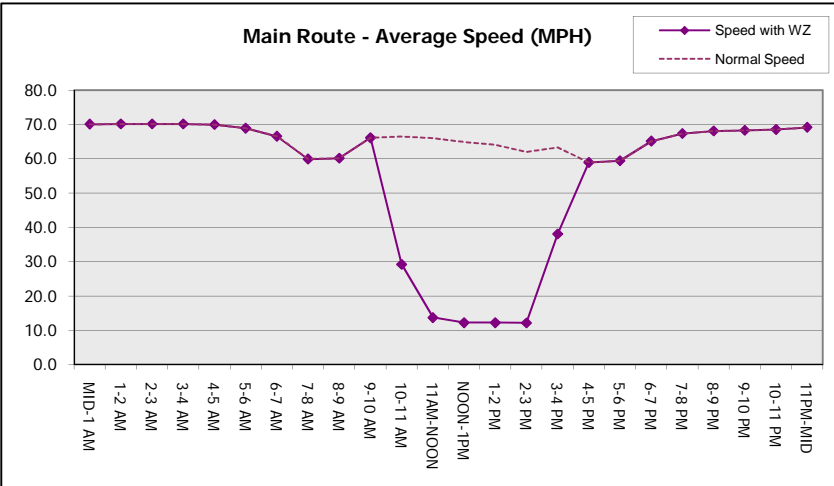
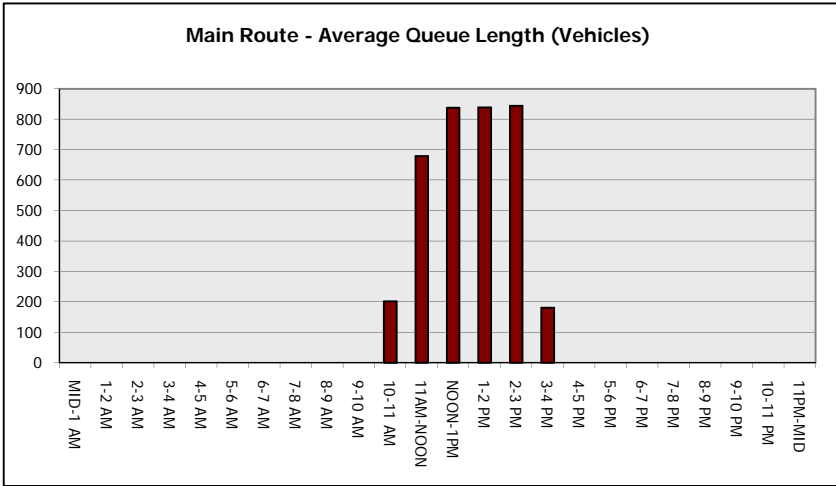
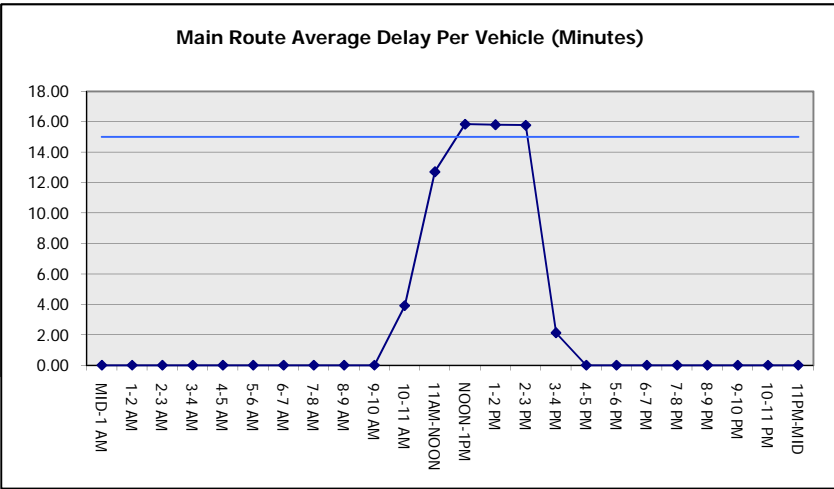
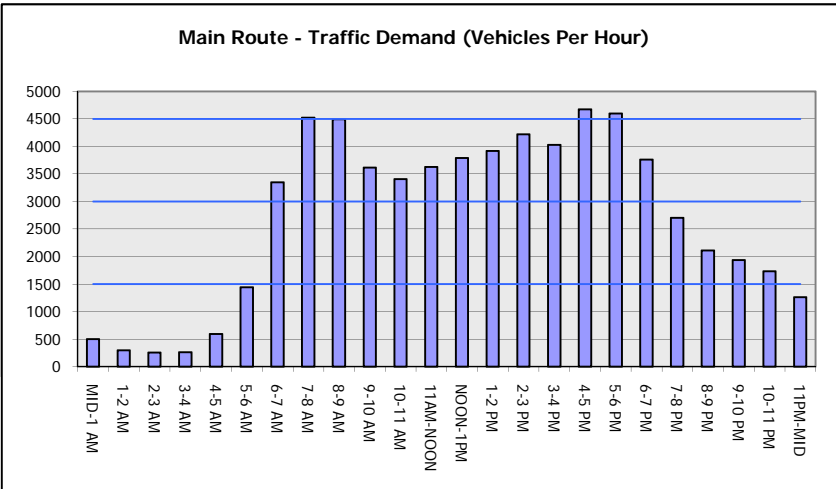
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0352
MAIN ROUTE WITH WORKS	0.0325
'DIVERSION'	0.0039
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$53,402
CONGESTED HOURS PER DAY*	4

\*Delays Exceeding User-Specified Maximum

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**OFF-PEAK DAY CLOSURE**  
**NO DIVERSION ROUTE (MAX QUEUE METHOD)**

**AUGUST**  
 Analyzed for 2009  
 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**FRIDAY SOUTHBOUND DIRECTION**



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**SUMMARY OF TRAFFIC MODEL OUTPUT**

FRIDAY                      NORTHBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR							AVERAGE SPEEDS IN MPH		
	MAIN ROUTE		SITE CAPA CITY	FLOW		AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		SITE
	DEMAND FLOW	PCT HEAVY		MAIN ROUTE	'DIVER TED'			WITHOUT WORK ZONE	WITH WORK ZONE	
MID-1 AM	870	0.0	OFF	870	0	0.00	0	69.7	69.7	69.7
1-2 AM	554	0.0	OFF	554	0	0.00	0	70.0	70.0	70.0
2-3 AM	426	0.0	OFF	426	0	0.00	0	70.2	70.2	70.2
3-4 AM	397	0.0	OFF	397	0	0.00	0	70.2	70.2	70.2
4-5 AM	571	0.0	OFF	571	0	0.00	0	70.0	70.0	70.0
5-6 AM	1577	0.0	OFF	1577	0	0.00	0	68.7	68.7	68.7
6-7 AM	3356	0.0	OFF	3356	0	0.00	0	66.6	66.6	66.6
7-8 AM	4055	0.0	OFF	4055	0	0.00	0	63.2	63.2	63.2
8-9 AM	4047	0.0	OFF	4047	0	0.00	0	63.2	63.2	63.2
9-10 AM	3341	0.0	OFF	3341	0	0.00	0	66.6	66.6	66.6
10-11 AM	3371	0.0	2999	3371	0	3.37	169	66.6	31.7	37.3
11AM-NOON	3849	0.0	3000	3419	430	12.98+	703	64.6	13.5	37.3
NOON-1PM	4092	0.0	3000	3042	1050	15.81+	843	62.9	12.1	37.3
1-2 PM	4290	0.0	3000	3017	1273	15.79+	847	61.5	12.1	37.3
2-3 PM	4534	0.0	3000	3009	1525	15.89+	858	59.9	12.0	37.3
3-4 PM	5133	0.0	OFF	5133	0	4.68	424	55.8	24.5	24.5
4-5 PM	5470	0.0	OFF	5470	0	0.00	0	53.5	53.5	53.5
5-6 PM	5135	0.0	OFF	5135	0	0.00	0	55.8	55.8	55.8
6-7 PM	3704	0.0	OFF	3704	0	0.00	0	65.6	65.6	65.6
7-8 PM	2945	0.0	OFF	2945	0	0.00	0	67.1	67.1	67.1
8-9 PM	2488	0.0	OFF	2488	0	0.00	0	67.6	67.6	67.6
9-10 PM	2565	0.0	OFF	2565	0	0.00	0	67.6	67.6	67.6
10-11 PM	2739	0.0	OFF	2739	0	0.00	0	67.3	67.3	67.3
11PM-MID	1806	0.0	OFF	1806	0	0.00	0	68.5	68.5	68.5

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

+ INDICATES QUEUEING EXCEEDS USER-SPECIFIED MAXIMUM LIMIT

*----- SITE BREAKDOWN DELAYS -----*	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

*----- SITE ACCIDENT DELAYS -----*	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0
AV BREAKDOWNS PER DAY	0
AV QUEUE DELAY/DAY (VEH-H)	0
AV TOTAL DELAY/DAY (VEH-H)	0

AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0386
MAIN ROUTE WITH WORKS	0.0352
'DIVERSION'	0.0054

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$60,323
CONGESTED HOURS PER DAY*	4

\*Delays Exceeding User-Specified Maximum

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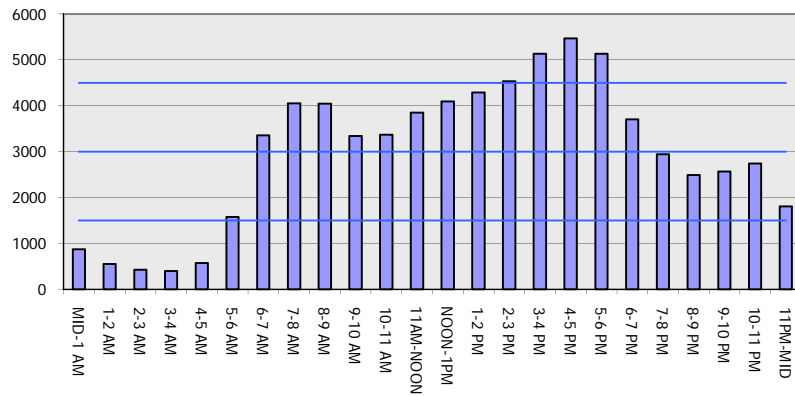
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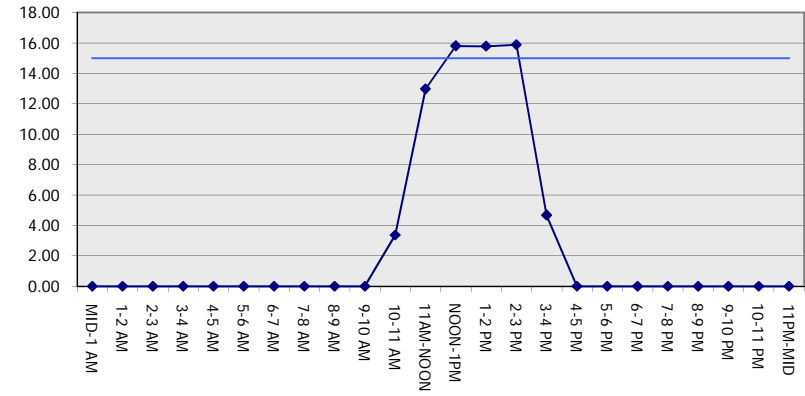
**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**

**FRIDAY NORTHBOUND DIRECTION**

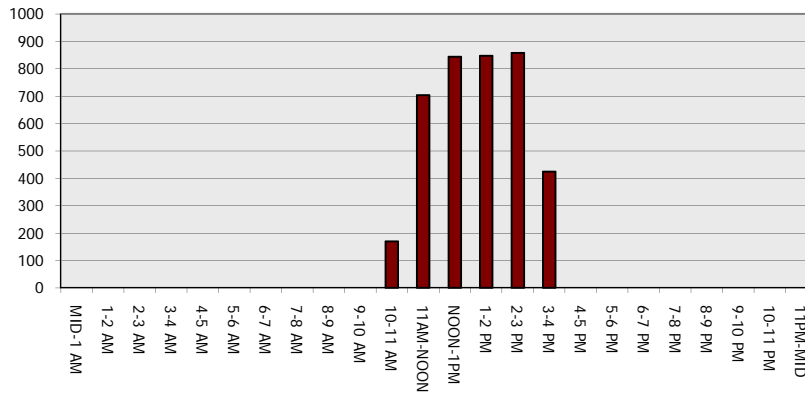
**Main Route - Traffic Demand (Vehicles Per Hour)**



**Main Route Average Delay Per Vehicle (Minutes)**



**Main Route - Average Queue Length (Vehicles)**



**Main Route - Average Speed (MPH)**

